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MEMORANDUM

DATE: June 26, 2012

TO: Brandon Perkins, Task Monitor, EPA, Region 10, Seattle, WA

FROM: Linda Ader, START-3 Project Leader, E & E, Seattle, WA

SUBJ: Site Recommendations
Flint Hills North Pole Refinery

REF: Contract No. EP-S7-06-02
Technical Direction Document No. 12-04-0001

Cc: Jeff Fetters, START-3 Project Manager, E & E, Seattle, WA

This recommendations memorandum has been developed for the Flint Hills North Pole Refinery which is located in North Pole, Alaska, as part of a Preliminary Assessment (PA). Flint Hills operates a petroleum refinery located outside the city limits of North Pole, approximately 13 miles southeast of Fairbanks, Alaska. The Flint Hills refinery occupies approximately 80 acres on a parcel that is approximately 240 acres in size. The property in which Flint Hills is located has always been used as an oil refinery.

Spills of various products used at the refinery have occurred at the site. Available sample data have indicated the presence of sulfolane at the site in ground water at or above cleanup levels and recommended public health action levels. This data also indicate that sulfolane has been detected at shallow to moderate depth within the aquifer and has migrated off site. Approximately 6,309 people use ground water within the 4-mile TDL. Sulfolane has been detected in both domestic and former municipal drinking water wells within the 4-mile target distance limit. Concentrations of sulfolane exceed the Alaska Department of Environmental Conservation interim cleanup level of 25 micrograms per liter ($\mu\text{g/L}$).

Based on the findings presented in the Flint Hills North Pole refinery PA Report and the accompanying Hazard Ranking System score, further action under the Comprehensive Environmental Response, Compensation, and Liability Act or other authorities is recommended at this site.

If you have any questions regarding this memorandum, please call me at (206) 624-9537.

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